581

2021-12-01 To: 2021-12-31

1115760 Emerald BioEnergy STATUS: PERMIT NUMBER: SUBMISSION ID: Original 4IN00204*BD FACILITY: **STATION CODE:** LOCATION:

2881 Co Rd 156 **MONITORING PERIOD:** Cardington, OH 43315

COUNTY: REPORTING LAB: Morrow DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER	рН	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, To In Sludge	
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	100000000000000000000000000000000000000
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composit	
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Page 1

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:581

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			N	O DISCHARGE I	NDICATOR:	AL	
PARAMETER	Copper, Total Ir Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fo Weight	ee Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	000000000000000000000000000000000000000
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TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:581

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			NO	DISCHARGE IF	ADICATOR:	AL	
PARAMETER	Mercury, Tot In Sludge	al Molybdenum in Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING							
TYPE	Composite	Composite					
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Page 3

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER	рН		Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, To In Sludge		Cadmium, Total In Sludge
PARAMETER CODE	00400		00611	00627	00668	00938	01003		01028
UNITS	S.U.		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg
FREQUENCY	1/Mont	h	1/Month	1/Month	1/Month	1/Month	1/Month		1/Month
SAMPLING TYPE	Composi		Composite	Composite	Composite	Composite	Composit		Composite
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Page 4

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB: DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

				D DISCHARGE I		AL	
PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Sludge Fo Weight	Sludge Weight
PARAMETER CODE	01043	01052	01068	01093	01148	51129	70316
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dry tons	Dry Tons
FREQUENCY	1/Month	1/Month	1/Month	1/Month	1/Month	1/Month	
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Total	Total
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:582

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			NO	DISCHARGE II	IDICATOR:	AL	
PARAMETER	Mercury, Total In Sludge	Molybdenum in Sludge					
PARAMETER CODE	71921	78465					
UNITS	mg/kg	mg/kg					
FREQUENCY	1/Month	1/Month					
SAMPLING		1					
TYPE	Composite	Composite					
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:586

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeff Williamson

NO DISCHARGE INDICATOR:

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PARAMETER	Sludge Weig							
PARAMETER CODE	5112	9						
UNITS	dry to	ns						
FREQUENCY	1/Ye	ar						
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:588

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:Jeff Williamson

NO DISCHARGE INDICATOR:

			NC	DISCHARGE II	NDICATOR:		
PARAMETER	Sludge Weight						
PARAMETER CODE	70316						
UNITS	Dry Tons						
FREQUENCY	1/Year						
SAMPLING TYPE	Total						
2021-12-01	526.39						
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:589

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

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PARAMETER	рН	Ammonia (NH3) In Sludge	Nitrogen Kjeldahl, Total In Sludge	Phosphorus, Total in Sludge	Potassium In Sludge	Arsenic, To In Sludge	
PARAMETER CODE	00400	00611	00627	00668	00938	01003	01028
UNITS	S.U.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disc	>0000000000000000000000000000000000000
SAMPLING TYPE	Composite	Composite	Composite	Composite	Composite	Composit	te Composite
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:589

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER	Copper, Total In Sludge	Lead, Total In Sludge	Nickel, Total In Sludge	Zinc, Total In Sludge	Selenium, Total In Sludge	Free Liquid Sludge	s, In F	ecal Coliform in Sludge
PARAMETER CODE	01043	01052	01068	01093	01148	04174		31641
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Pass = 0 Fa 1	iil =	MPN/G
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Maximum								
Average	300330000000000000000000000000000000000	000000000000000000000000000000000000000				200000000000000000000000000000000000000	000000000000000000000000000000000000000	10000110000110000110000000000000000000
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Name of Resp Official or Aut		y under the per ersonally exam	nalty of law that	I Signature of Author	of Responsible (rized Represent			ibmission ate/Time
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		of those indiv						
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Jeffre			is true, accurat	e				rtification
		mplete. I am aw					Vei	rsion Date
William	son are sig		es for submittin	g			2022	-01-20 11:03
	false ir	nformation, incl						
	possibi	ility of fine and	imprisonment.	1				

Page 10

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:589

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			14	O DISCHARGE II	IDICATON.	AL	
PARAMETER	Sludge Fee Weight	Sludge Weight	Sludge Solids, Percent Total	Mercury, Total In Sludge	Molybdenum In Sludge	to regiona	me, Sludge Weight, al to regional lity storage facility
PARAMETER CODE	51129	70316	70318	71921	78465	99973	99974
UNITS	dry tons	Dry Tons	%	mg/kg	mg/kg	gals	dry tons
FREQUENCY	When Disch.	When Disch.	When Disch.	When Disch.	When Disch.	When Disc	
SAMPLING		*		£	6		
TYPE	Total	Total	Composite	Composite	Composite	Total	Total
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06		-					
2021-12-07		-					
2021-12-08		_					
2021-12-09 2021-12-10		1					
2021-12-10							
2021-12-11	***************************************	-					
2021-12-13		1					
2021-12-14		1					
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23							
2021-12-24							
2021-12-25							
2021-12-26		-					
2021-12-27		-					
2021-12-28 2021-12-29		-					
2021-12-29	***************************************	-		***************************************	***************************************	***************************************	***************************************
2021-12-31	***************************************	-		***************************************			
		<u> </u>					
Minimum							
Maximum	000000000000000000000000000000000000000			***************************************		000000000000000000000000000000000000000	
Average	000000000000000000000000000000000000000			***************************************		200000000000000000000000000000000000000	
Count			1 C1 -1	T C:	6 D	0.661 -1 -1 -1	Culonoi ariar
Name of Resp Official or Aut		fy under the per			f Responsible		Submission Date/Time
Representa	gravo 1	personally exam		Author	ized Represent	arive	Pate, Illie
Kepresente	\$rcmmi	ar with the infor					
		tted herein and					
		y of those indiv					
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		formation, I beli					
Jeffre		tted information		e			Certification
		omplete. I am aw					<b>Version Date</b>
William	son are sig	gnificant penalti		g <b>l</b>			2022-01-20 11:01
	false i	nformation, incl		-			
		oility of fine and		×		8	

Page 11

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:589

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			NC	D DISCHARGE II	NDICATOR:	AL	
PARAMETER	Sludge Volume, to approved beneficial use sites	Sludge Weight, to approved beneficial use sites	Foreign Matter, percent				
PARAMETER CODE	99975	99976	99979				
UNITS	gals	dry tons	%				
FREQUENCY	When Disch.	When Disch.	When Disch.				
SAMPLING							
TYPE	Total	Total	Composite				
2021-12-01 2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06 2021-12-07			ļ				
2021-12-07						***************************************	
2021-12-09						***************************************	
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2021-12-11							
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2021-12-14 2021-12-15							
2021-12-15							
2021-12-17		***************************************		***************************************			
2021-12-18	***************************************	***************************************					***************************************
2021-12-19							
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23 2021-12-24							
2021-12-25							
2021-12-26							
2021-12-27						***************************************	
2021-12-28							
2021-12-29							
2021-12-30							
2021-12-31							
Minimum							
Maximum Average							
Count	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	000000000000000000000000000000000000000
Official or Aut	horized have p	ersonally exam		Signature o	f Responsible ( ized Represent		Submission Date/Time
Representa	submit	r with the infor ted herein and of those indiv	based on my				
Jeffre William	immed the inf submit and co are sig false in	iately responsi ormation, I beli ted information mplete. I am aw nificant penalti nformation, incl	ble for obtaining eve the i is true, accurate vare that there es for submitting	9			Certification Version Date 2022-01-20 11:01

Page 12

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:601

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

PARAMETER	Hydraulic Loading Rate (HLR)	Sludge Solids, Percent Total	Sludge Solids, Percent Volatile	COD, Soluble	Organic Loading Rate (OLR)		
PARAMETER CODE	51028	70318	70322	80116	99981		
UNITS	GPD	%	%	mg/l	lb/cf/day		
FREQUENCY	1/Week	1/Week	1/Week	1/Week	1/Week		
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous		
2021-12-01							
2021-12-02							
2021-12-03		<b></b>				***************************************	
2021-12-04 2021-12-05		<b></b>				*******************************	
2021-12-05	***************************************		***************************************				
2021-12-07				8			
2021-12-08							
2021-12-09							
2021-12-10							
2021-12-11		<b></b>	<b></b>	<b> </b>	ļ		
2021-12-12 2021-12-13		<b></b>					
2021-12-13							
2021-12-15							
2021-12-16		_					
2021-12-17							
2021-12-18							
2021-12-19						***************************************	
2021-12-20						******************************	
2021-12-21 2021-12-22		<b></b>	<b></b>	<b></b>			
2021-12-23							
2021-12-24		<u> </u>		<u></u>			
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28		<b></b>	<b></b>	<u></u>			
2021-12-29 2021-12-30	***************************************		***************************************		***************************************		
2021-12-30	***************************************					***************************************	
Minimum							
Maximum						500000000000000000000000000000000000000	
Average	000000000000000000000000000000000000000					000000000000000000000000000000000000000	
Count					000000000000000000000000000000000000000	000000000000000000000000000000000000000	
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Jeffre William	immed the inf submit and co son are sig false in	ormation, I beli ted information mplete. I am aw	ble for obtaining eve the is true, accurat vare that there es for submittin uding the	re e			Certification Version Date 2022-01-20 11:01

Page 13

SUBMISSION ID: 1115760 STATUS: FACILITY: Emerald BioEnergy PERMIT I LOCATION: 2881 Co Rd 156 STATION

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS:
PERMIT NUMBER:
STATION CODE:
MONITORING PERIOD:

**REPORTING LAB:** 

Original 4IN00204*BD

602

2021-12-01 To: 2021-12-31

energy Jeremy Kanaird

ANALYST:

	NO DISCHARGE INDICATOR:									
PARAMETER	Temperature, In Sludge	рН	Alkalinity, Total (CaCO3)	Volatile Fatty Acids (VFA)	Detention Time, days					
PARAMETER CODE	99978	00400	00410	99980	72026					
UNITS	F	S.U.	mg/l	mg/l	days					
FREQUENCY	1/Day	3/Week	3/Week	3/Week	1/Week					
SAMPLING TYPE	Continuous	Composite	Composite	Composite	Continuous					
2021-12-01	100	7,569	4893	584	31					
2021-12-02	99									
2021-12-03	98	7.542	5049	484						
2021-12-04	98									
2021-12-05	98	7.475								
2021-12-06	98		5011	504						
2021-12-07	98	***************************************		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
2021-12-08	97	7.114	4152	789	31					
2021-12-09	96									
2021-12-10	98	7.205								
2021-12-11	98	7 460								
2021-12-12	98	7.469	F230	1700						
2021-12-13 2021-12-14	98 98		5230 3891	1709 504						
2021-12-14	98	7.183	3031	304	31					
2021-12-15	98	7.103			31					
2021-12-17	98	7.401	4304	1468						
2021-12-18	98	7.701	1 7377	1700						
2021-12-19	98	***************************************	1	***************************************	-					
2021-12-20	98	7.366	5297	1993						
2021-12-21	98		5845	1797						
2021-12-22	98	7.414			31					
2021-12-23	98									
2021-12-24	98	7.420	6798	2146						
2021-12-25	98									
2021-12-26	98		5741	2014						
2021-12-27	98	7.518	5646	1903						
2021-12-28	98									
2021-12-29	99	7.551	5655	1344	31					
2021-12-30	98	7.554	5376	1769						
2021-12-31	98									
Minimum		7.114	3891.0	484.0	96.0					
Maximum		7.569	6798.0	2146.0	100.0					
Average		000000000000000000000000000000000000000	5206.28571	1357.71429	98.03226		10000100000000			
Count		14	14	14	31					
Name of Resp Official or Aut Representa	horized have per ative familian submiti	y under the peersonally exan r with the info ted herein and of those indiv	rmation based on my	I Signature of Author	of Responsible ( rized Represent		Submission Date/Time			
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Page 14

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:603

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			N	O DISCHARGE II	NDICATOR.	AL	
PARAMETER	Solids, Total Volatile	Sludge Solids, Percent Volatile	COD, Soluble	Oil and Grease, Hexane Extr Method	Foreign Matter, percent		
PARAMETER CODE	00157	70322	80116	00552	99979		
UNITS	% Removed	%	mg/l	mg/l	%		
FREQUENCY	1/Week	1/Week	1/Week	1/Month	1/Month		
SAMPLING							
TYPE	Calculated	Composite	Composite	Composite	Composite		
2021-12-01							
2021-12-02							
2021-12-03		<b> </b>					
2021-12-04		<b>_</b>		<b></b>			
2021-12-05 2021-12-06	***************************************	<b></b>					
2021-12-07							
2021-12-08		<b>†</b>					
2021-12-09							
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13							
2021-12-14							
2021-12-15							
2021-12-16		<b></b>					
2021-12-17							
2021-12-18		<u> </u>					
2021-12-19 2021-12-20				<b></b>			
2021-12-20		<u> </u>					
2021-12-22		<b>†</b>					
2021-12-23		<b>†</b>					
2021-12-24		<u> </u>					
2021-12-25							
2021-12-26							
2021-12-27							
2021-12-28							
2021-12-29	***************************************			***************************************			
2021-12-30		<b></b>		<b></b>			
2021-12-31							
Minimum							
Maximum	000000000000000000000000000000000000000					000000000000000000000000000000000000000	
Average	000000000000000000000000000000000000000			8 8 8		000000000000000000000000000000000000000	.00000000000000000000000000000000000000
Count							
Name of Resp Official or Aut Representa	horized _{have p} itive familia submit	fy under the per personally exam ar with the infor tted herein and y of those indivi	ined and am mation based on my	I Signature o Author	of Responsible ( ized Represent	Official or ative	Submission Date/Time
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Page 15

SUBMISSION ID: 1115760
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD: Original 4IN00204*BD

604

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

NO DISCHARGE INDICATOR:

**REPORTING LAB:** 

ANALYST:

			INC	D DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	5.48507	3.52100					
2021-12-03							
2021-12-04							
2021-12-05 2021-12-06		8					
2021-12-07		-					
2021-12-08						***************************************	
2021-12-09	5.48507	3.52100					
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13		<b>_</b>					
2021-12-14							
2021-12-15 2021-12-16	5.48507	3.52100					
2021-12-17	3.46307	3,32100					
2021-12-18		<b>-</b>		***************************************			***************************************
2021-12-19						***************************************	
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	5.48507	3.52100					
2021-12-24		-					
2021-12-25 2021-12-26		<b>-</b>	<b></b>				
2021-12-20		-					
2021-12-28		<b></b>		***************************************			
2021-12-29	5.48507	3.52100					
2021-12-30							
2021-12-31							
Minimum	5.48507						
Maximum	5.48507						
Average	5.48507			***************************************			
Count	5						
Name of Respo Official or Auth Representa	norized _{have p} tive _{familia}	fy under the per personally exam ar with the infor tted herein and	rmation	I Signature o Author	f Responsible ( ized Represent		Submission Date/Time
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Page 16

SUBMISSION ID: 1115760
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD:

**REPORTING LAB:** 

ANALYST:

Original **4IN00204*BD** 

605

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

			N	D DISCHARGE II	NDICATOR:	
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge				
PARAMETER CODE	82564	99977				
UNITS	feet	mgals				
FREQUENCY	1/Week	1/Week				
SAMPLING TYPE	Total	Total				
2021-12-01						
2021-12-02	.38769	.14500				
2021-12-03						
2021-12-04						
2021-12-05 2021-12-06		<b>-</b>				 
2021-12-00		9				
2021-12-08					***************************************	 ***************************************
2021-12-09	.38769	.14500				
2021-12-10						
2021-12-11						
2021-12-12						
2021-12-13						
2021-12-14		<b>_</b>				
2021-12-15	30700	14500				
2021-12-16 2021-12-17	.38769	.14500				 
2021-12-17		<b>-</b>				 
2021-12-19		<b></b>		***************************************		 
2021-12-20		<b>-</b>				
2021-12-21						
2021-12-22						
2021-12-23	.38769	.14500				
2021-12-24		-				 
2021-12-25		-				
2021-12-26 2021-12-27		<b>-</b>				 
2021-12-27		-				 
2021-12-29						
2021-12-30	.38769	.14500				
2021-12-31						
Minimum	0.38769					
Maximum	0.38769					
Average	0.38769					
Count	5					
Name of Respo Official or Auth Representa	n <b>orized</b> have p <b>tive</b> familia submi	personally exam ar with the infor tted herein and	rmation based on my		f Responsible ( ized Represent	Submission Date/Time
Jeffre Williams	y immed the interest submits and contains are signal.	formation, I beli tted information omplete. I am aw	ble for obtaining eve the is true, accurat vare that there es for submittin luding the	е		Certification Version Date 2022-01-20 11:01

Page 17

SUBMISSION ID:1115760FACILITY:Emerald BioEnergyLOCATION:2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD:

**REPORTING LAB:** 

ANALYST:

Original **4IN00204*BD** 

606

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

NO DISCHARGE INDICATOR:

			N	D DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	.33176	.28500					
2021-12-03							
2021-12-04 2021-12-05							
2021-12-05							
2021-12-07							
2021-12-08						***************************************	
2021-12-09	.33176	.28500					
2021-12-10							
2021-12-11							
2021-12-12 2021-12-13		<b> </b>					
2021-12-13							
2021-12-15		İ					
2021-12-16	.33176	.28500					
2021-12-17							
2021-12-18				~~~~			
2021-12-19		<b>_</b>					
2021-12-20 2021-12-21							
2021-12-21							
2021-12-23	.33176	.28500					
2021-12-24							
2021-12-25							
2021-12-26				***************************************			
2021-12-27							
2021-12-28							
2021-12-29 2021-12-30	.33176	.28500					
2021-12-30	.53170	.20300					
Minimum	0.33176						
Maximum	0.33176						
Average	0.33176						
Count	5			***************************************		000000000000000000000000000000000000000	
Name of Respo Official or Auth Representa	orized have p	fy under the per personally exam ar with the infor		Signature o Author	f Responsible ( ized Represent		Submission Date/Time
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Page 18

SUBMISSION ID: 1115760
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD: Original 4IN00204*BD

607

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

NO DISCHARGE INDICATOR:

**REPORTING LAB:** 

ANALYST:

			NC	DISCHARGE I	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	2.85714	2.81000					
2021-12-03		-					
2021-12-04							
2021-12-05 2021-12-06		000000000000000000000000000000000000000					
2021-12-07		0					
2021-12-08	***************************************			***************************************			
2021-12-09	2.85714	2.81000					
2021-12-10							
2021-12-11							
2021-12-12 2021-12-13							
2021-12-13							
2021-12-15							
2021-12-16	2.85714	2.81000					
2021-12-17							
2021-12-18				***************************************			
2021-12-19		8					
2021-12-20		<u> </u>					
2021-12-21 2021-12-22		1					
2021-12-23	2.85714	2.81000					
2021-12-24	2100724	1 2,01000					
2021-12-25							
2021-12-26							
2021-12-27		-				***************************************	
2021-12-28		8					
2021-12-29 2021-12-30	2.85714	2.81000					
2021-12-30	2.03/14	2.81000					
Minimum	2.85714						
Maximum	2.85714	1		***************************************			
Average	2.85714						
Count	5						
Name of Respo Official or Auth Representa	orized have p	fy under the per personally exam ar with the infor		I Signature o Author	f Responsible ( ized Represent	Official or ative	Submission Date/Time
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Page 19

SUBMISSION ID:1115760FACILITY:Emerald BioEnergyLOCATION:2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD:

**REPORTING LAB:** 

ANALYST:

Original 4IN00204*BD

608

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

			N	D DISCHARGE II	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	1.36200	1.36500					
2021-12-03							
2021-12-04 2021-12-05		<b></b>					
2021-12-03		<u> </u>					
2021-12-07							
2021-12-08		<b>*</b>					
2021-12-09	1.36200	1.36500		**************************************			
2021-12-10							
2021-12-11							
2021-12-12							
2021-12-13		<u> </u>					
2021-12-14		<b>!</b>					
2021-12-15	1 26200	1.30500					
2021-12-16 2021-12-17	1.36200	1.36500		***************************************	***************************************		
2021-12-17							
2021-12-19	***************************************		***************************************	***************************************	***************************************		
2021-12-20							
2021-12-21							
2021-12-22							
2021-12-23	1.36200	1.36500					
2021-12-24							
2021-12-25		<b></b>					
2021-12-26		<b>!</b>					
2021-12-27		<b>!</b>					
2021-12-28 2021-12-29		<u> </u>					
2021-12-30	1.36200	1.36500					
2021-12-31	1.30200	1.50500					
Minimum	1.362						
Maximum	1.362			***************************************			
Average	1.362						
Count	5			53000003000000300000030000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	<b>6</b> 000000000000000000000000000000000000
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Official or Auth		ersonally exam			ized Represent		Date/Time
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Page 20

SUBMISSION ID: 1115760
FACILITY: Emerald BioEnergy
LOCATION: 2881 Co Rd 156

Cardington, OH 43315

COUNTY: Morrow DISTRICT: CDO

STATUS: PERMIT NUMBER: STATION CODE: MONITORING PERIOD:

**REPORTING LAB:** 

ANALYST:

Original 4IN00204*BD

609

2021-12-01 To: 2021-12-31

Renergy Josh Ropke

NO DISCHARGE INDICATOR:

			NC	DISCHARGE I	NDICATOR:		
PARAMETER	Freeboard	Maximum Operating Level (MOL), Sludge					
PARAMETER CODE	82564	99977					
UNITS	feet	mgals					
FREQUENCY	1/Week	1/Week					
SAMPLING TYPE	Total	Total					
2021-12-01							
2021-12-02	20.76969	24.02000					
2021-12-03		<b></b>					
2021-12-04							
2021-12-05 2021-12-06			<b></b>				
2021-12-07							
2021-12-08				***************************************	***************************************		
2021-12-09	20.76969	24.02000					
2021-12-10							
2021-12-11							
2021-12-12 2021-12-13		<u> </u>					
2021-12-13		<u> </u>					
2021-12-15							
2021-12-16	20.76969	24.02000					
2021-12-17							
2021-12-18	***************************************			***************************************			
2021-12-19							
2021-12-20		<u> </u>	<b> </b>				
2021-12-21 2021-12-22							
2021-12-23	20.76969	24.02000					
2021-12-24	20170303	1 24/02000					
2021-12-25							
2021-12-26							
2021-12-27		<u></u>				***************************************	
2021-12-28		<u></u>					
2021-12-29 2021-12-30	20.76969	24.02000	<b> </b>				
2021-12-30	20.70303	24.02000					
Minimum	20,76969						
Maximum	20.76969			***************************************			
Average	20.76969						
Count	5				300000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
Name of Respo Official or Auth Representa	norized have p	fy under the per personally exam: ar with the infor		I Signature o Author	f Responsible ( ized Represent		Submission Date/Time
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Page 21

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:701

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:jeremy Kanaird

NO DISCHARGE INDICATOR: AL

			iAs	O DISCHARGE IN	IDICATOR:	AL	
PARAMETER	Water Temperature	Turbidity	Conductivity	рН	Nitrogen, Ammonia (NH3)	Nitroger Nitrite (NC	
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING							
TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01							
2021-12-02						<u> </u>	
2021-12-03					***************************************	<b></b>	
2021-12-04						<b></b>	
2021-12-05					***************************************	<b>_</b>	
2021-12-06						<b>-</b>	
2021-12-07 2021-12-08			-			<b>-</b>	
2021-12-08						<del> </del>	
2021-12-09						<b>-</b>	
2021-12-10					***************************************	<u> </u>	
2021-12-12						<b>†</b>	
2021-12-13						1	
2021-12-14		***************************************				1	
2021-12-15							
2021-12-16							
2021-12-17							
2021-12-18							
2021-12-19							
2021-12-20							
2021-12-21						<b>-</b>	
2021-12-22						<b>-</b>	
2021-12-23						<b>_</b>	
2021-12-24 2021-12-25						<b>+</b>	
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2021-12-28						<del>                                     </del>	
2021-12-29						1	
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2021-12-31					***************************************		
Minimum							
Maximum		***************************************			***************************************	1	000000000000000000000000000000000000000
Average	000000000000000000000000000000000000000	000000000000000000000000000000000000000			000000000000000000000000000000000000000		
Count		000000000000000000000000000000000000000	000000000000000000000000000000000000000	500000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000
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Page 22

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:701

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:jeremy Kanaird

NO DISCHARGE INDICATOR: AL

			NC	DISCHARGE I	INDICATOR:	AL	
PARAMETER	Nitrogen Kjeldahl, Total	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (S	04) E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING	Grab	Grab	Grab	Grab	Grab	Grab	Grab
TYPE	9,00	9,42	Jius	O.G.V	0.00		
2021-12-01		<b>_</b>					
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2021-12-03							
2021-12-04 2021-12-05		1	-		_	<b> </b>	
2021-12-05		<del> </del>				<del> </del>	
2021-12-07		<b>-</b>				<b></b>	
2021-12-08							
2021-12-09			<b> </b>			<b> </b>	
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2021-12-11							
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2021-12-15							
2021-12-16							
2021-12-17				***************************************		<b></b>	
2021-12-18						<b></b>	
2021-12-19		<b></b>					
2021-12-20		<b></b>				<b></b>	
2021-12-21		<b> </b>				<b></b>	
2021-12-22							
2021-12-23		-	-			<b>!</b>	
2021-12-24 2021-12-25		<b>.</b>				<b></b>	
2021-12-25		<b>1</b>	<b> </b>		_	<b></b>	
2021-12-27		-	<b> </b>			<b> </b>	
2021-12-28				***************************************			
2021-12-29						<b> </b>	
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2021-12-31						l	
Minimum		1					
Maximum		•		***************************************		<b>1</b>	
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Page 23

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:701

Cardington, OH 43315 MONITORING PERIOD :

COUNTY:MorrowREPORTING LAB:RenergyDISTRICT:CDOANALYST:jeremy Kanaird

NO DISCHARGE INDICATOR: AI

			NC	DISCHARGE II	NDICATOR:	AL	
PARAMETER	Residue, Total Filterable						
PARAMETER CODE	70300						
UNITS	mg/l						
FREQUENCY	2/Year						
SAMPLING TYPE	Grab						
2021-12-01		1					
2021-12-02							
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2021-12-06		<b>-</b>	ļ				
2021-12-07		•	<b></b>				
2021-12-08 2021-12-09			<b></b>				
2021-12-10		<b></b>	<del> </del>			<b></b>	
2021-12-10			1				
2021-12-12		1					
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2021-12-17		-	ļl				
2021-12-18				***************************************			
2021-12-19 2021-12-20		<u> </u>	<b> </b>				
2021-12-20		<u> </u>	<del>                                     </del>				
2021-12-22		<u> </u>	<b>I</b>				
2021-12-23							
2021-12-24		•					
2021-12-25							
2021-12-26							
2021-12-27			<b></b>	***************************************			
2021-12-28		-	<b> </b>				
2021-12-29		8	<b> </b>				
2021-12-30 2021-12-31		8	<b></b>				
Minimum							
Maximum			<b> </b>				
Average Count	000000000000000000000000000000000000000			000000000000000000000000000000000000000	010000000000000000000000000000000000000	000000000000000000000000000000000000000	
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Page 24

 SUBMISSION ID:
 1115760
 STATUS:
 Original

 FACILITY:
 Emerald BioEnergy
 PERMIT NUMBER:
 4IN00204*BD

 LOCATION:
 2881 Co Rd 156
 STATION CODE:
 702

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			iAs	O DISCHARGE IN	IDICATOR:	AL	
PARAMETER	Water Temperature	Turbidity	Conductivity	рН	Nitrogen, Ammonia (NH3)	Nitroger Nitrite (NC	
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING							
TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01							
2021-12-02		***************************************				<u></u>	
2021-12-03		•••••				<b></b>	
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2021-12-09							
2021-12-10							
2021-12-12						<b>1</b>	
2021-12-13						1	
2021-12-14		***************************************				1	
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2021-12-25							
2021-12-20							
2021-12-28			<b>†</b>				
2021-12-29							
2021-12-30		***************************************		***************************************	***************************************		
2021-12-31		***************************************					***************************************
Minimum							
Maximum					***************************************	1	
Average	000000000000000000000000000000000000000	000000000000000000000000000000000000000			000000000000000000000000000000000000000	***************************************	
Count		***************************************			000000000000000000000000000000000000000		000000000000000000000000000000000000000
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SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:702

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB: DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

	Nitrogen	Phosphorus,	Sodium, Total	Potassium,		AL	
PARAMETER	Kjeldahl, Total	Total (P)	(Na)	Total (K)	Chloride, Total	Sulfate, (S	O4) E. coli
PARAMETER CODE	00625	00665	00929	00937	00940	00945	31648
UNITS	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING	Grab	Grab	Grab	Grab	Grab	Grab	Grab
TYPE	Gran	Glan	Glau	Grau	Glau	Gran	Glau
2021-12-01							
2021-12-02							
2021-12-03		<b></b>					
2021-12-04			<u> </u>				
2021-12-05 2021-12-06			-			<b></b>	
2021-12-06		<b></b>	<del> </del>				
2021-12-08			<b></b>			<b></b>	
2021-12-09			<b></b>	************************************	***************************************	•	
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2021-12-16				***************************************		<b></b>	
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2021-12-18		•		***************************************		<b></b>	
2021-12-19			<del>                                     </del>			<b></b>	
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2021-12-29							
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Page 26

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:702

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			NC	DISCHARGE II	NDICATOR:	AL	
PARAMETER	Residue, Total Filterable						
PARAMETER CODE	70300						
UNITS	mg/l						
FREQUENCY	2/Year						
SAMPLING TYPE	Grab						
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
2021-12-06		<b></b>				<b></b>	
2021-12-07		<b></b>	<u> </u>				
2021-12-08 2021-12-09	***************************************		<b> </b>				
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2021-12-14							
2021-12-15							
2021-12-16	***************************************		<b></b>	***************************************			
2021-12-17		<u></u>					
2021-12-18	***************************************			***************************************	***************************************		
2021-12-19 2021-12-20		<b></b>	<b> </b>			<b></b>	
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2021-12-25							
2021-12-26							
2021-12-27	***************************************	<b></b>		***************************************	••••		
2021-12-28		<b></b>	<b></b>				
2021-12-29		<u></u>	<b></b>				
2021-12-30 2021-12-31		<b></b>	<b>-</b>			<b> </b>	
Minimum		<u> </u>					
Maximum			<b> </b>				
Average Count	000000000000000000000000000000000000000			000000000000000000000000000000000000000	<b>0</b> 00000000000000000000000000000000000		100000000000000000000000000000000000000
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Page 27

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:703

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			1414	D DISCHARGE IN	IDICATOR.	AL	
PARAMETER	Water Temperature	Turbidity	Conductivity	рН	Nitrogen, Ammonia (NH3)	Nitroger Nitrite (NC	
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING							
TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01							
2021-12-02		***************************************				<u> </u>	
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2021-12-04						<b></b>	
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2021-12-07						<b>-</b>	
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2021-12-29						1	
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2021-12-31		***************************************					
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Maximum		***************************************		***************************************	***************************************	1	
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Jeffre William	immed the info submit and cor son false in	iately responsiormation, I bel ted information mplete. I am av nificant penalt formation, inc	ble for obtaining ieve the n is true, accurat vare that there ies for submitting	e			Certification Version Date 2022-01-20 11:0

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:703

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

				NC	DISCHARGE	INDICATOR:	AL	
PARAMETER	Nitroge Kjeldahl, T	n otal	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (S	O4) E. coli
PARAMETER CODE	00625		00665	00929	00937	00940	00945	31648
UNITS	mg/l		mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year		2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING	C l-		C	61	C1-	See le		6
TYPE	Grab		Grab	Grab	Grab	Grab	Grab	Grab
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2021-12-03								
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2021-12-05				<b></b>			<b> </b>	
2021-12-06				<b> </b>			<b> </b>	
2021-12-07 2021-12-08			***************************************	<b> </b>	***************************************		<b></b>	
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2021-12-11							<b>i</b>	
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2021-12-29							<b></b>	
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2021-12-31								
Minimum								
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Official or Aut	thorized $_{ m ha}$	ive pe	ersonally exam	ined and am	Autho	rized Represent	ative	Date/Time
Represent	ative $_{ m fa}$	milia	r with the infor	rmation	1			
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			ormation, I beli					
loffra	su su	lbmitt	ted information	is true, accurate	е			Certification
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				imprisonment.				

Page 29

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:703

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

ANALYST:

	CDO			NALYST: O DISCHARGE II	NDICATOR:	AL	
PARAMETER	Residue, Total Filterable						
PARAMETER CODE	70300						
UNITS	mg/l						
FREQUENCY	2/Year						
SAMPLING TYPE	Grab						
2021-12-01							
2021-12-02							
2021-12-03							
2021-12-04							
2021-12-05							
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2021-12-07		**************************************					
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inquiry of those individus immediately responsible the information, I believ submitted information is and complete. I am awar are significant penalties false information, include possibility of fine and in			ole for obtaining eve the is true, accurat are that there es for submittin uding the	е			Certification Version Date 2022-01-20 11:01

Page 30

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:704

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

			IV.	O DISCHARGE IN	IDICATOR:	AL	
PARAMETER	Water Temperature	Turbidity	Conductivity	рН	Nitrogen, Ammonia (NH3)	Nitroger Nitrite (NC	
PARAMETER CODE	00011	00070	00094	00400	00610	00615	00620
UNITS	F	J.U.	Umho/Cm	S.U.	mg/l	mg/l	mg/l
FREQUENCY	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING							
TYPE	Grab	Grab	Grab	Grab	Grab	Grab	Grab
2021-12-01							
2021-12-02		***************************************				<u> </u>	
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Maximum		***************************************			***************************************	<b>†</b>	
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	horized _{have p} ative familia submit	ersonally exam r with the info ted herein and	rmation based on my	I Signature of Authori	f Responsible zed Represen	Official or tative	Submission Date/Time
inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.				e			Certification Version Date 2022-01-20 11:0

Page 31

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:704

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

NO DISCHARGE INDICATOR: AL

				NC	DISCHARGE	INDICATOR:	AL	
PARAMETER	Nitroge Kjeldahl, T	n otal	Phosphorus, Total (P)	Sodium, Total (Na)	Potassium, Total (K)	Chloride, Total	Sulfate, (S	O4) E. coli
PARAMETER CODE	00625		00665	00929	00937	00940	00945	31648
UNITS	mg/l		mg/l	mg/l	mg/l	mg/l	mg/l	#/100 ml
FREQUENCY	2/Year		2/Year	2/Year	2/Year	2/Year	2/Year	2/Year
SAMPLING	C l-		C	61	C1-	See le		6
TYPE	Grab		Grab	Grab	Grab	Grab	Grab	Grab
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2021-12-07 2021-12-08			***************************************	<b> </b>	***************************************		<b></b>	
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Represent	ative $_{ m fa}$	milia	r with the infor	rmation	1			
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				imprisonment.				

Page 32

SUBMISSION ID:1115760STATUS:OriginalFACILITY:Emerald BioEnergyPERMIT NUMBER:4IN00204*BDLOCATION:2881 Co Rd 156STATION CODE:704

Cardington, OH 43315 MONITORING PERIOD :

COUNTY: Morrow REPORTING LAB:
DISTRICT: CDO ANALYST:

PORTING LAB:

2021-12-01 To: 2021-12-31

NO DISCHARGE INDICATOR: AL

			NC	DISCHARGE II	NDICATOR:	AL	
PARAMETER	Residue, Tot Filterable	al					
PARAMETER CODE	70300						
UNITS	mg/l						
FREQUENCY	2/Year						
SAMPLING							
TYPE	Grab						
2021-12-01		***************************************		***************************************			
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Official or Aut	horized have	e personally exa	mined and am	Author	ized Represent		Date/Time
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FACILITY: LOCATION: Emerald BioEnergy 2881 Co Rd 156 PERMIT NUMBER: MONITORING PERIOD: 4IN00204*BD

2021-12-01 To: 2021-12-31

Cardington, OH 43315

### **GENERAL REPORT COMMENT:**

I am currently waiting on the test results to come back from the lab for test 701,702,703 and 704. once the results are received I will update the info.

### **PARAMETER COMMENTS:**

Station Code	Parameter Name	Parameter Code	Date	Unit	Comment
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